SABIT Environmental Technology Program Wastewater and Water Treatment Session

Industrial Wastewater from the following industries:

Iron and Steel

Pulp and paper mills

Inorganic chemicals manufacturing

Textile manufacturing

Oil production

Paint manufacturing

Food and kindred products

Mining

Livestock feeding

Agriculture and irrigation

Nonferrous metals

Hydroelectric/nuclear facilities

Breweries

Electro plating

Organic chemicals manufacturing

Management Services

Aquaculture wastewater management

Lake and marine management

Coastal resource protection & planning

Toxicology studies

Ecological restoration of streams and wetlands

Laboratory services

Effluent sampling/monitoring services

Water regulations and policy development

Emergency response planning/services

Potable water systems

Groundwater sampling/monitoring services

Municipal wastewater treatment

Analytical/Monitoring Instruments:

Process analyzers

samplers

telemetry

flowmeters

water quality monitors

Collection/Control/Conveyance Systems

Groundwater collection/extraction

Liquid storage

Water distribution Systems

Sewer and stormwater systems

Bulk liquid handling

Treatment Systems

Water purification (potable and industrial)

Wastewater sludge - treatment/management

Innovative wastewater treatment systems

Sludge stabilization

Wastewater treatment - primary

Sludge dewatering and disposal

Wastewater treatment - secondary

Marine spill control

Wastewater treatment - disinfection

Liquid waste treatment

Wastewater treatment - tertiary (advanced)

Liquid waste and wastewater recycling

Water/Wastewater Treatment Technologies

Separation:

Air striping (w/abatement)

Precipitation

Steam striping (w/incineration)

Freeze crystallization

Carbon absorption (w/regeneration or incineration)

Distillation/evaporation

Membrane filtration (including reverse osmosis)

Fluid extraction

Ion exchange

Other physical treatments

Biological Treatment:

Aerobic

Anaerobic

anoxic

Thermal Treatment:

Incineration

thermal catalytic oxidation

wet air oxidation

supercritical water oxidation

Oxidation Processes:

Ozone, oxidation and combined methods

Electron beam irradiation

Electrohydraulic cavitation and sonolysis

Photolysis and photocatalysis

Supercritical water oxidation

Chlorine and hydrogen peroxide

Non thermal discharge (silent discharge plasma reactors)

Air sparging

Other Topics

Environmental regulation, enforcement

Non-point source issues

Worker safety and health standards

Risk management/corrective action

Watershed protection program

Pollution prevention

Market-Oriented Training Topics:

Company strategy development

Contract negotiation

Supply and demand/pricing

Project development/program planning

Sales and marketing

Raising capital

Proposal writing/business plans

Bringing R&D to market

Customer service